

F&J SPECIALTY PRODUCTS, INC.

F&J ELITE DIGITAL LIGHT (EDL) AIR SAMPLER

Model DF-EDL-HPE

NOTABLE FEATURES:

- State-of-the-Art Electronics
- Lightweight: ~16 lbs. (7.26 kg)
- Powerful: Flow rate to 170 LPM
- Very low maintenance
- Automatic Flow Control
- Operator selectable Ambient or Reference flow T and P Conditions
- Auto shut-off on time or volume
- RS232 Communication port
- Brushless motor
- Easily replaceable HEPA filters
- Optional Vertical Mount for Filter Holders



“Lightweight: ~ 16 lbs.”

GENERAL DESCRIPTION:

F&J Model DF-EDL-HPE is a powerful small foot print light weight AC/DC powered air sampling system operable from (1) line power or (2) an optional 24VDC external power source. This powerful air sampler is the lightest weight low volume air sampler available having similar flow rate capacity.

The DF-EDL-HPE air sampler is well suited for various types of air sampling applications such as REMP, plant emissions and work area monitoring programs. The unit is also equipped with two replaceable HEPA filters that filter the cooling air. It can be utilized in remote air sampling applications powered from solar panels or wind turbines.

The F&J Digital Flowmeter technology provides maximum flexibility, flow rate normalization, automatic flow control and opportunities for control by a PC device through the RS232 communication port.

The typical operating flow range is 20 - 170 SLPM (0.7 – 6 SCFM). The actual flow range implemented will depend on the filter(s) utilized by the customer.

- * *All pictures are being used for illustrative purposes only. Actual product may vary slightly.*
- * *Specifications, availability and components are subject to change without notice.*

DF-EDL-HPE AC/DC Air Sampler Specifications (200 – 240VAC)

Pump Type: Centrifugal blower

Maximum Flowrate:

140 LPM - Typical w/47 mm FP47M glass fiber media

170+ LPM – Free air flow capacity

Power Source:

Line Power; 200VAC to 240VAC

External DC Source – 24VDC (option)

Maximum Current Draw: 4 A maximum on line power
10 A maximum on 24 VDC

Filter Holder Fitting:

3/8 FNPT quick disconnect

Handle: Durable plastic

Weight: 16 lbs. (7.26 kg)

Installation Category: Pollution Degree 2

Enclosure Rating: IPX2

Dimensions: 12.5" × 11" × 14" (32 × 28 × 36 cm)

Average dB: 74.6

Operating Temperature Range:

14°F to 104°F (-10°C to 40°C)

Display: Bright LED (6 character, 1.2 cm H)

Elapsed Time: DD:HH:MM up to 168 hours

Flow Control:

Adjustable from keypad between 20-180 LPM

Flow Accuracy: ±4.0% of Full Scale

Factory Settable Reference T and P

Classical STP	0°C, 1 ATM
Normal T and P	20°C, 1 ATM
Modified Normal T and P	70°F, 1 ATM
Standard Ambient T and P	25°C, 1 ATM

OPTIONS:

- Data Storage Device (P/N: 232FCDS)
- 2+ GB Secure Digital Card (P/N: 372239)
- Flash card Reader (P/N: SDDR-199-A20)
- 24VDC External power connector (P/N: 24VDCOPT)
- DC voltage booster to enable operation from 12VDC (P/N: 24VDCOPT-B)

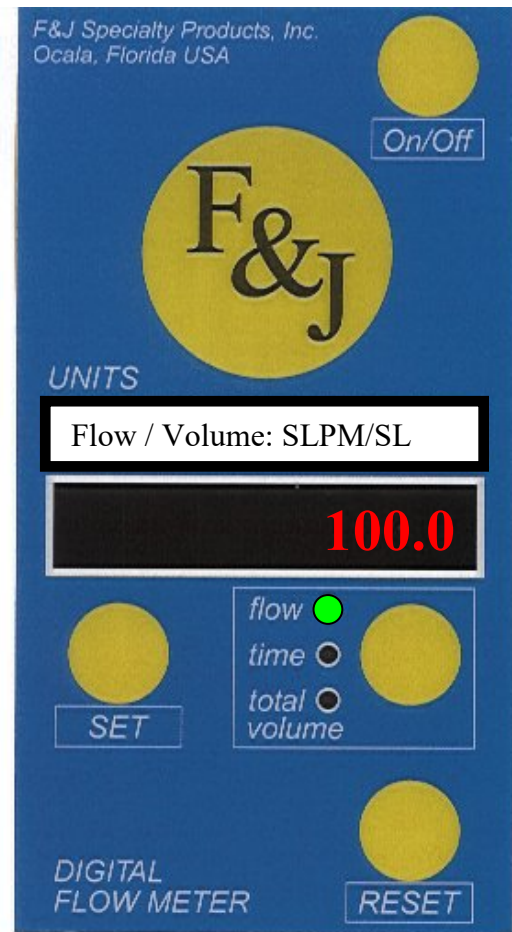
Standard Combination Filter Holders Available:

FILTER HOLDER MODEL	CHARCOAL CARTRIDGE DIMENSIONS	PARTICULATE PAPER DIAMETER
FJ-05P	F&J Model B	2" or 50 mm
FJ-21P	F&J Model C	2" or 50 mm
FJ-35P	F&J Model B	47 mm
FJ-46P	F&J Model C	47 mm
FJ-51P	F&J Model M	2" or 50 mm
FJ-53P	F&J Model M	47 mm

Available Engineering Units for Flow and Volume:

scm / sec
SLPM / SLP
SCFM / SCF
SCMH / SCM
SCMM/SCM

Digital Flowmeter Keypad/Display



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DF-EDL-HPE AC/DC Air Sampler Specifications (200 – 240 VAC)

Typical Maximum Flow Rates for Various Filter Media Combinations

Filter Media	Flow Rate (SCFM)	Flow Rate (SLPM)	Media D.P.(“Hg)	Media D.P.(“H ₂ O)
FP47	3.49	98	3.22	43.78
FP47M	5.76	163	2.13	28.96
FP47M2	8.43	238	1.31	17.81
FP47 & TE2C	2.76	78.11	3.55	48.26
FP47M & TE3C	4.28	121	2.85	38.75
FP47M2 & TE1C	5.36	151.69	1.79	24.34
FP20M	5.40	152.82	1.80	24.47
FP20M & TE2C	3.83	108.39	2.95	40.11
FP20M & TE3C	4.22	119.43	2.67	36.30
FP40M	11	310	0.77	10.47



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DF-EDL-HPE AC/DC Air Sampler Specifications (200 – 240 VAC)



Pictured with 130mm FJ-130 Filter Holder



Pictured with 130mm FJ-130 Filter Holder Vertically Mounted



Pictured with 47mm FJ-46P Filter Holder



Pictured with 47mm FJ-46P Filter Holder Vertically Mounted